

# Claims

[c1]

Claim 1:

A modular electronic device where non-direct electrical contact (non-contact) mechanisms are used for inter-module communication, and where modules are attached forming an extendable structure with extendable function.

[c2]

Claim 2:

A modular device as in Claim 1 where non-direct electrical contact control mechanisms are used.

[c3]

Claim 3:

A modular electronic device where non-direct electrical contact control mechanisms are used, this is an independent claim.

[c4]

Claim 4:

A modular device as in Claim 1 where inter-module power is distributed using magnetic induction/transformer action.

[c5]

Claim 5:

A modular device as in Claim 1 where modules are liquid filled for cooling.

[c6]

**Claim 6:**

**A modular device as in Claim 1 where modules are liquid filled for withstanding a high-pressure environment.**

[c7]

**Claim 7:**

**An electronic device packaged inside of a fluid filled enclosure (case) for withstanding a high pressure environment. This is an independent claim.**

[c8]

**Claim 8:**

**A modular device as in Claim 1 where inter-module power is distributed using a non-contact power distribution mechanism.**

[c9]

**Claim 9:**

**A modular device as in Claim 1 where the modules are sealed.**

[c10]

**Claim 10:**

**A modular device as in Claims 1 where devices are internally powered.**

[c11]

**Claim 11:**

**A modular device as in Claim 1 where power is distributed through direct electric power interconnects.**

[c12]

**Claim 12:**

**A modular device as in Claim 1 where alignment mechanisms and retention mechanisms are used to align and attach modules.**

[c13]

**Claim 13:**

**A modular device as in Claim 1 where alignment mechanisms are used as a transformer core.**

[c14]

**Claim 14:**

**A modular device as in Claim 1 where alignment mechanisms are used to improve the efficiency of non-contact power distribution mechanisms.**

[c15]

**Claim 15:**

**A pointer used with a modular device as in Claim 2 that contains an non-contact control source that acts as a non-contact control mechanism.**

[c16]

**Claim 16:**

**A device used with a modular device as in Claim 2 that redirects/channels a non-contact control source energy that originates from within a module and acts as a control mechanism.**

[c17]

**Claim 17:**

**A system comprised of a plurality of devices described in Claim 1 and preceding Claims as they comprise a failure resistant extendable methodology for building robust electronic systems.**